

Mobile Counter Fire System (MCFS)

Purpose: Develop a counter sniper capability that can improve force protection in urban settings. MCFS will augment force protection by providing a capability to immediately detect sniper fire, identify the location from which a sniper is shooting, and depending on the system configuration to return accurate fire.

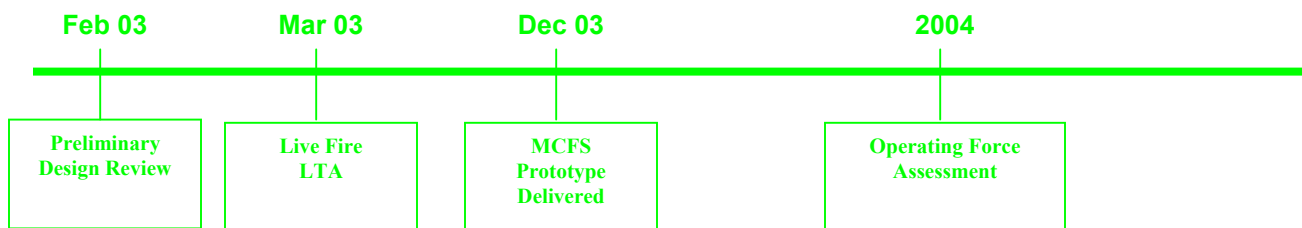
Background: The Marine Corps has a need to provide the war fighter a means of detecting the origin of incoming sniper fire. Technological advances in acoustic sensors, computer analysis of sound signatures, and integration of robotics are available to produce sniper detection and counter-sniper prototypes for operating force experimentation. If successful, the long-term goal would be to migrate parts of the technology (especially the sensor package) to other Program of Record vehicle platforms.



Description: The current MCFS prototype consists of a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) mounted with an acoustic sniper gunfire detection system capable of operating in a fixed position. The system has the capability of slewing a roof-mounted gun at the sniper's position and to automatically track the aim point for final aiming and return fire. Experimentation will consist of limited technical assessments of an advanced prototype in live fire scenarios. The intent is to develop a technologically mature capability set (system prototype) that can be used in extensive operational assessments in order to refine Mission Needs for insertion into the Expeditionary Force Development Process.

Deliverable Product(s): Prototype for operational assessment and requirements documentation.

Milestones:



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